

WEST Search History

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		<i>DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L6	L3 and (cycliz\$ or macrocycliz\$) and thioesterase	136
<input type="checkbox"/>	L5	L3 and (cycliz\$ or macrocycliz\$)	275
<input type="checkbox"/>	L4	L3 and (thioesterase or cycliz\$ or macrocycliz\$)	316
<input type="checkbox"/>	L3	L2 or l1	579
<input type="checkbox"/>	L2	\$ribosomal adj2 peptide adj2 (synthase or synthetase)	92
<input type="checkbox"/>	L1	polyketide adj2 (synthase or synthetase)	559

END OF SEARCH HISTORY

10/017324
STN Search Summary

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(FILE 'HOME' ENTERED AT 16:32:29 ON 14 JAN 2004)

FILE 'CAPLUS' ENTERED AT 16:32:36 ON 14 JAN 2004

L1 1252 S (POLYKETIDE (2W) (SYNTHETASE OR SYNTHASE)) OR (?RIBOSOMAL (2W)
PEPTIDE (2W) (SYNTHETASE OR
SYNTHASE))

L2 155 S L1 AND THIOESTERASE

L3 31 S L2 AND CYCLIZ?

L4 37 S L2 AND ?CYCLIZ?

L5 6 S L4 NOT L3

L3 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:826990 CAPLUS

TI Intermediates released from a polyether-producing polyketide
synthase provide insight into the mechanism of oxidative
cyclization

AU Hughes-Thomas, Zoe A.; Stark, B. W.; Boehm, Ines U.; Staunton, James;
Leadlay, Peter F.

SO Angewandte Chemie, International Edition (2003), 42(37), 4475-4478

L3 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:639631 CAPLUS

TI Loading Peptidyl-Coenzyme A onto Peptidyl Carrier Proteins: A Novel
Approach in Characterizing Macrocyclization by Thioesterase
Domains

AU Sieber, Stephan A.; Walsh, Christopher T.; Marahiel, Mohamed A.

SO Journal of the American Chemical Society (2003), 125(36), 10862-10866

L3 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:148430 CAPLUS

TI Epothilone C Macrolactonization and Hydrolysis Are Catalyzed by the
Isolated Thioesterase Domain of Epothilone Polyketide
Synthase

AU Boddy, Christopher N.; Schneider, Tanya L.; Hotta, Kinya; Walsh,
Christopher T.; Khosla, Chaitan

SO Journal of the American Chemical Society (2003), 125(12), 3428-3429

L3 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:57433 CAPLUS

TI Enzymology of acyl chain macrocyclization in natural product biosynthesis

AU Kohli, Rahul M.; Walsh, Christopher T.

SO Chemical Communications (Cambridge, United Kingdom) (2003), (3), 297-307

L3 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:933289 CAPLUS

TI Biochemical Evidence for an Editing Role of Thioesterase II in
the Biosynthesis of the Polyketide Pikromycin

AU Kim, Beom Seok; Cropp, T. Ashton; Beck, Brian J.; Sherman, David H.;
Reynolds, Kevin A.

SO Journal of Biological Chemistry (2002), 277(50), 48028-48034

Abstr.
L3 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:787034 CAPLUS
TI Characterization of the Surfactin Synthetase C-Terminal
Thioesterase Domain as a Cyclic Depsipeptide Synthase
AU Tseng, Claire C.; Bruner, Steven D.; Kohli, Rahul M.; Marahiel, Mohamed
A.; Walsh, Christopher T.; Sieber, Stephan A.
SO Biochemistry (2002), 41(45), 13350-13359

OK
L3 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:613876 CAPLUS
TI Macrocyclizations catalyzed by TE domains of nonribosomal
peptide synthetases
AU Walsh, Christopher
SO Abstracts of Papers, 224th ACS National Meeting, Boston, MA, United
States, August 18-22, 2002 (2002), BIOL-104 Publisher: American Chemical
Society, Washington, D. C.
DT Conference; Meeting Abstract

P
L3 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:588657 CAPLUS
TI Biomimetic synthesis and optimization of cyclic peptide antibiotics
AU Kohli, Rahul M.; Walsh, Christopher T.; Burkart, Michael D.
SO Nature (London, United Kingdom) (2002), 418(6898), 658-661

L3 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:568999 CAPLUS
TI An Unexpected Interaction between the Modular Polyketide
Synthases, Erythromycin DEBS1 and Pikromycin PikAIV, Leads to
Efficient Triketide Lactone Synthesis
AU Kim, Beom Seok; Cropp, T. Ashton; Florova, Galina; Lindsay, Yuko; Sherman,
David H.; Reynolds, Kevin A.
SO Biochemistry (2002), 41(35), 10827-10833

L3 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:455976 CAPLUS
TI The vbs genes that direct synthesis of the siderophore vicibactin in
Rhizobium leguminosarum: Their expression in other genera requires ECF
.sigma. factor RpoI
AU Carter, R. A.; Worsley, P. S.; Sawers, G.; Challis, G. L.; Dilworth, M.
J.; Carson, K. C.; Lawrence, J. A.; Wexler, M.; Johnston, A. W. B.;
Yeoman, K. H.
SO Molecular Microbiology (2002), 44(5), 1153-1166

L3 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:290042 CAPLUS
TI The biosynthesis of the aromatic myxobacterial electron transport
inhibitor stigmatellin is directed by a novel type of modular
polyketide synthase
AU Gaitatzis, Nikolaos; Silakowski, Barbara; Kunze, Brigitte; Nordsiek,
Gabriele; Blocker, Helmut; Hofle, Gerhard; Muller, Rolf
SO Journal of Biological Chemistry (2002), 277(15), 13082-13090

L3 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:184386 CAPLUS
 TI Structural Basis for the Cyclization of the Lipopeptide
 Antibiotic Surfactin by the Thioesterase Domain SrfTE
 AU Bruner, Steven D.; Weber, Thomas; Kohli, Rahul M.; Schwarzer, Dirk;
 Marahiel, Mohamed A.; Walsh, Christopher T.; Stubbs, Milton T.
 SO Structure (Cambridge, MA, United States) (2002), 10(3), 301-310

L3 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:124589 CAPLUS
 TI The thioesterase domain from a nonribosomal
 peptide synthetase as a cyclization catalyst
 for integrin binding peptides
 AU Kohli, Rahul M.; Takagi, Junichi; Walsh, Christopher T.
 SO Proceedings of the National Academy of Sciences of the United States of
 America (2002), 99(3), 1247-1252

L3 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:9360 CAPLUS
 TI Crystal structure of the macrocycle-forming thioesterase domain
 of the erythromycin polyketide synthase: versatility
 from a unique substrate channel
 AU Tsai, Shiou-Chuan; Miercke, Larry J. W.; Krucinski, Jolanta; Gokhale,
 Rajesh; Chen, Julian C.-H.; Foster, Paul G.; Cane, David E.; Khosla,
 Chaitan; Stroud, Robert M.
 SO Proceedings of the National Academy of Sciences of the United States of
 America (2001), 98(26), 14808-14813

L3 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:720371 CAPLUS
 TI Exploring the impact of different thioesterase domains for the
 design of hybrid peptide synthetases
 AU Schwarzer, D.; Mootz, H. D.; Marahiel, M. A.
 SO Chemistry & Biology (2001), 8(10), 997-1010

L3 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:637079 CAPLUS
 TI Kinetic study on pikromycin thioesterase domain
 AU Lu, Hongxiang; Cane, David E.
 CS Department of Chemistry, Brown University, Providence, RI, 02912, USA
 SO Abstracts of Papers, 222nd ACS National Meeting, Chicago, IL, United
 States, August 26-30, 2001 (2001), BIOL-068 Publisher: American Chemical
 Society, Washington, D. C.
 DT Conference; Meeting Abstract

L3 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:445023 CAPLUS
 TI Enzymes for peptide cyclization
 AU Bordusa, Frank
 SO ChemBioChem (2001), 2(6), 405-409 Published in: Angew. Chem., Int.
 Ed., 40(11)
 DT Journal; General Review

L3 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:360335 CAPLUS
 TI Generality of peptide cyclization catalyzed by isolated
 thioesterase domains of nonribosomal peptide
 synthetases
 AU Kohli, Rahul M.; Trauger, John W.; Schwarzer, Dirk; Marahiel, Mohamed A.;
 Walsh, Christopher T.
 SO Biochemistry (2001), 40(24), 7099-7108

L3 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:355497 CAPLUS
 TI Cyclization of Backbone-Substituted Peptides Catalyzed by the
 Thioesterase Domain from the Tyrocidine Nonribosomal
 Peptide Synthetase
 AU Trauger, John W.; Kohli, Rahul M.; Walsh, Christopher T.
 SO Biochemistry (2001), 40(24), 7092-7098

L3 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:309791 CAPLUS
 TI Identification of Claisen cyclase domain in fungal polyketide
 synthase WA, a naphthopyrone synthase of *Aspergillus nidulans*
 AU Fujii, Isao; Watanabe, Akira; Sankawa, Ushio; Ebizuka, Yutaka
 SO Chemistry & Biology (2001), 8(2), 189-197

L3 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:215899 CAPLUS
 TI Molecular cloning and characterization of WdPKS1, a gene involved in
 dihydroxynaphthalene melanin biosynthesis and virulence in *Wangiella*
 (*Exophiala*) *dermatitidis*
 AU Feng, Bin; Wang, Xu; Hauser, Melinda; Kaufmann, Sarah; Jentsch, Simone;
 Haase, Gerhard; Becker, Jeffery M.; Szaniszlo, Paul J.
 SO Infection and Immunity (2001), 69(3), 1781-1794

L3 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:168127 CAPLUS
 TI Saccharopolyspora spinosyn biosynthesis gene cluster and methods for
 preparing spinosyn and spinosyn derivatives
 IN Eberz, Guenther; Moehrle, Volker; Froede, Rita; Velten, Robert; Salas,
 Jose A.
 PA Bayer Aktiengesellschaft, Germany
 SO PCT Int. Appl., 388 pp.
 LA German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2001016303	A2	20010308	WO 2000-EP8013	20000817
	DE 19957268	A1	20010308	DE 1999-19957268	19991129
	EP 1212412	A2	20020612	EP 2000-956458	20000817
	JP 2003508050	T2	20030304	JP 2001-520850	20000817
PRAI	DE 1999-19940596	A	19990827		
	DE 1999-19957268	A	19991129		
	WO 2000-EP8013	W	20000817		

L3 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:779048 CAPLUS
 TI Biosynthesis of the ansamycin antibiotic rifamycin: polyketide
 synthase processes multiple polyketide chains simultaneously
 AU Doi-Katayama, Yukiko; Tang, Li; Park, Cheonseok; Yu, Tin-Wein; Shen,
 Yuemao; Moore, Bradley S.; Floss, Heinz G.; Hutchinson, C. Richard
 SO Tennen Yuki Kagobutsu Toronkai Koen Yoshishu (1999), 41st, 637-642
 DT Journal; General Review
 LA Japanese

L3 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:674670 CAPLUS
 TI Assembly of the *Pseudomonas aeruginosa* Nonribosomal Peptide Siderophore
 Pyochelin: In Vitro Reconstitution of Aryl-4,2-bisthiazoline Synthetase
 Activity from PchD, PchE, and PchF
 AU Quadri, Luis E. N.; Keating, Thomas A.; Patel, Hiten M.; Walsh,
 Christopher T.
 SO Biochemistry (1999), 38(45), 14941-14954

0 L3 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:548433 CAPLUS
 TI Elucidating the mechanism of chain termination switching in the
 picromycin/methymycin polyketide synthase
 AU Tang, Li; Fu, Hong; Betlach, Melanie C.; McDaniel, Robert
 SO Chemistry & Biology (1999), 6(8), 553-558

125 L3 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:168898 CAPLUS
 TI Mechanism and specificity of the terminal thioesterase domain
 from the erythromycin polyketide synthase
 AU Gokhale, Rajesh S.; Hunziker, Daniel; Cane, David E.; Khosla, Chaitan
 SO Chemistry & Biology (1999), 6(2), 117-125

L3 ANSWER 27 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1999:144100 CAPLUS
 TI Thioesterase function in the synthetase of the siderophore
 enterobactin
 AU Shaw-Reid, C. A.; Kelleher, N.; Ehmann, D. E.; Walsh, C. T.
 SO Book of Abstracts, 217th ACS National Meeting, Anaheim, Calif., March
 21-25 (1999), BIOT-086 Publisher: American Chemical Society, Washington,
 D. C.
 DT Conference; Meeting Abstract

0 L3 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:395190 CAPLUS
 TI The thioesterase of the erythromycin-producing
 polyketide synthase: influence of acyl chain structure
 on the mode of release of substrate analog from the acyl enzyme
 intermediates
 AU Weissman, Kira J.; Smith, Cameron; Hanefield, Ulf; Aggarwak, Ranjana;
 Bycroft, Matthew; Staunton, James; Leadlay, Peter F.
 SO Angewandte Chemie, International Edition (1998), 37(10), 1437-1440

L3 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:544183 CAPLUS
 TI Engineered biosynthesis of structurally diverse tetraketides by a trimodular polyketide synthase
 AU Kao, Camilla M.; Luo, Guanglin; Katz, Leonard; Cane, David E.; Khosla, Chaitan
 SO Journal of the American Chemical Society (1996), 118(38), 9184-9185

L3 ANSWER 30 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1996:463863 CAPLUS
 TI Erythromycin biosynthesis: exploiting the catalytic versatility of the modular polyketide synthase
 AU Luo, Guanglin; Pieper, Rembert; Rosa, Angela; Khosla, Chaitan; Cane, David E.
 SO Bioorganic & Medicinal Chemistry (1996), 4(7), 995-999

L3 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1995:269914 CAPLUS
 TI The biosynthetic gene cluster for coronamic acid, an ethylcyclopropyl amino acid, contains genes homologous to amino acid-activating enzymes and thioesterases
 AU Ulrich, Matthias; Bender, Carol L.
 SO Journal of Bacteriology (1994), 176(24), 7574-86

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:694136 CAPLUS
 TI Polyketide-nonribosomal peptide epothilone antitumor agents: the EpoA, B, C subunits
 AU Walsh, Christopher T.; O'Connor, Sarah E.; Schneider, Tanya L.
 SO Journal of Industrial Microbiology & Biotechnology (2003), 30(8), 448-455

L5 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:382263 CAPLUS
 TI Chemoenzymatic Route to Macrocyclic Hybrid Peptide/Polyketide-like Molecules
 AU Kohli, Rahul M.; Burke, Martin D.; Tao, Junhua; Walsh, Christopher T.
 SO Journal of the American Chemical Society (2003), 125(24), 7160-7161

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:859146 CAPLUS
 TI Regeneration of misprimed nonribosomal peptide synthetases by type II thioesterases
 AU Schwarzer, Dirk; Mootz, Henning D.; Linne, Uwe; Marahiel, Mohamed A.
 SO Proceedings of the National Academy of Sciences of the United States of America (2002), 99(22), 14083-14088

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2002:732138 CAPLUS
 TI Insights into channel architecture and substrate specificity from crystal structures of two macrocycle-forming thioesterases of modular polyketide synthases
 AU Tsai, Shiou-Chuan; Lu, Hongxiang; Cane, David E.; Khosla, Chaitan; Stroud, Robert M.
 SO Biochemistry (2002), 41(42), 12598-12606

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:481443 CAPLUS
TI In Vitro Reconstitution of the *Pseudomonas aeruginosa* Nonribosomal Peptide
Synthesis of Pyochelin: Characterization of Backbone Tailoring Thiazoline
Reductase and N-Methyltransferase Activities
AU Patel, Hiten M.; Walsh, Christopher T.
SO Biochemistry (2001), 40(30), 9023-9031

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:768701 CAPLUS
TI Characterization of the angR gene of *Vibrio anguillarum*: essential role in
virulence
AU Wertheimer, A. M.; Verweij, W.; Chen, Q.; Crosa, L. M.; Nagasawa, M.;
Tolmasky, M. E.; Actis, L. A.; Crosa, J. H.
SO Infection and Immunity (1999), 67(12), 6496-6509